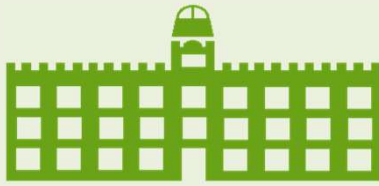


Climate Change in Derbyshire 2021

Derbyshire County Council

Since 2009/10 baseline Derbyshire County Council (excluding schools) has achieved:



**6 million KWh
reduction in
fuel usage**



**55.3%
reduction in
emissions**



**13,430 tonnes
reduction in
street lighting**



**5.2 million miles
reduction in
grey fleet***

*Grey fleet is the use of an employee's private vehicle for business travel

Source: 2009-2020 CO₂ Emissions from buildings and fleet excluding schools (tonnes), Derbyshire County Council, June 2021

CO₂ Emissions in Derbyshire 2019

Since 2009 CO₂ emissions have changed by:



**4,182.4 kt total emissions,
equating to a 22% reduction
(England fell by 27%)**



**1.6 kt CO₂ emissions per sq km
(0.85 kt reduction)
(England 1.7 kt, 0.62 reduction since 2009)**



**5.2 tonnes per capita (-26%)
(England 1.7 kt, 0.62 reduction since 2009)**



**+0.5% Transport from 1,393 to 1,399 kt
(England -0.7%)**



**-28% Domestic from 2,081 to 1,318 kt
(England -30%)**



**-17% Public Sector from 229 to 141 kt
(England -38%)**



**-29% Commercial from 646 to 350 kt
(England -46%)**



**-34% Industry from 1,895 to 975 kt
(England -35%)**

Source: UK local authority carbon dioxide emissions estimates 2019, DEFRA, June 2021

Note: Local Authority territorial CO₂ emissions estimates within the scope of influence of Local Authorities (kt CO₂) (Excludes large industrial sites, railways, motorways and land-use)

Transport in Derbyshire

**Vehicle registrations
have increased by
20% since 2009²**

**+60% increase
in LGV
registrations²**

**-32% in bus and
coach
registrations²**

**4,414 Ultra
Low Emission
Vehicles
(ULEVs)
registered Q1
2021^{3*}**

**169 publicly
available EV
charging devices
of which 51 are
rapid (30%)¹**

**Currently one EV
charging point for every
2,544 registered cars^{1,2}**

**0.5% increase in
CO₂ emissions
from transport
(1,393 in 2009 to 1,399 in 2019)**

Source: ¹Quarterly Electric Vehicle Charging Device Statistics, DfT, April 2021; ²Vehicle Licensing Statistics, DfT, May 2021; ³Licensed ULEV (veh0132), DVLA/DfT, July 2021; *Proxy measure - not an accurate reflection of vehicles currently within the county

Waste in Derbyshire 2019/20



93% of waste collected was from Households

(England 91%; CCN⁴ 94%)



48% of waste was sent for recycling-composting-reuse

(England 43%; CCN⁴ 49%)



90,608 tonnes (24%) of household waste was Dry Mixed Recycling (DMR)¹

(England 25%; CCN⁴ 26%)



85,259 tonnes (23%) of household waste was Green waste²

(England 19%; CCN⁴ 22%)

397,162 tonnes of waste collected



31% of waste was incinerated with Energy from Waste (EfW)³

(England 45%; CCN⁴ 46%)



20% of waste was sent to landfill

(England 8%; CCN⁴ 8%)

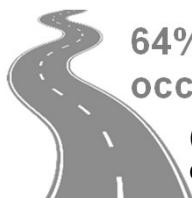
Source: 2019/20, Local Authority Collected Waste Statistics, DEFRA, May 2021

Notes: ¹DMR (dry mixed recycling) is waste which is free from contaminants, such as food or garden waste and can include glass, plastic, paper, cardboard etc.; ² Green waste (biological waste), is any organic waste that can be composted such as grass clippings or leaves, and domestic or industrial kitchen waste. Green waste does not include things such as dried leaves, pine straw, or hay; ³ Incineration with EfW: EfW is energy from waste includes waste rejected for recycling, composting or reuse where incineration with EfW is reported as the final destination of these rejects; ⁴County Councils Network

Fly-tipping

4,278 incidents of fly-tipping in 2019/20, an increase of 895 (26%) since 2014/15

(England +8%; English County Councils +7%)



64% of incidents occurred on Highways

(England 43%; English county councils 46%)



2,634 fly-tipping actions were taken, including 143 Fixed Penalty Notices and 11 Prosecutions



203 incidents (5%) were tipper-truck or significant / multi-load in size -

(England 3%, £10.8 million; English county councils 4%, £90,000)

Source: 2014/15 to 2019/20 Local Authority Reported Fly-tipping, LG Inform, April 2021

Green Space

3.3% population cycle at least 3 times per week

(England 5.3%)

11% population walked to work at least 5 times per week

9% tree cover

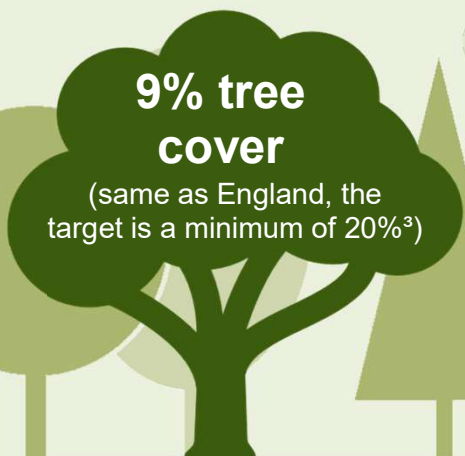
(same as England, the target is a minimum of 20%³)

445 metres of green space per capita

(England 208 m/capita^{2*})

131 metres of garden space per capita

(England 110 m/capita^{2*})

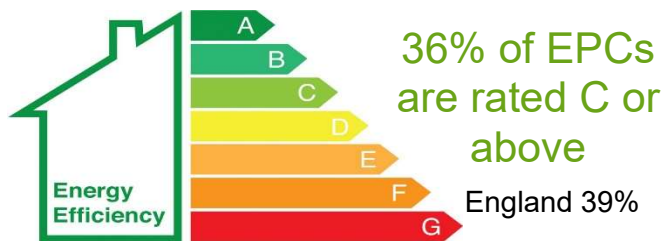


Source: ¹ Derbyshire sample size 2,650, 2018/19 Active Lives Survey - Sport England, Walking and Cycling Statistics, Table CW0307, DfT, August 2020; ²Green Space Consolidated Data, Friends of the Earth, Oct 2020; ³Local Authority Data Project, Climate Action, Sept 2019

Notes: *calculated using 2019 Mid-year population estimates, ONS, May 2020

Housing

Well insulated homes¹



Fuel Poverty²



49,145 (13.8%) households are in fuel poverty, an increase of 45% since 2013

(England 13.4%, increase of 35%)

Green Homes Grant³



547 homes have signed up and 174 measures have been installed so far

LAs signed up to the Local Authority Delivery Scheme

Phase 1A

Chesterfield
Derbyshire Dales
North East Derbyshire

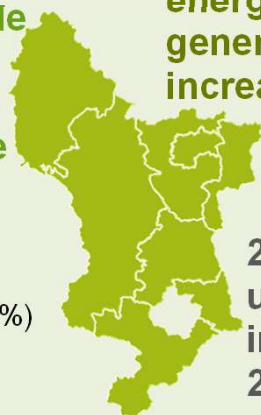
Phase 1B

Amber Valley
Chesterfield
North East Derbyshire
South Derbyshire

Source: ¹Cumulative EPC lodgements, 2009 to 2019 Energy Performance Building Certificates Live Tables, MHCLG, May 2021; ²2013 to 2019, Households in Fuel Poverty, BEIS, April 2021; ³Green Homes Grant Local Authority Delivery Scheme (GHG LAD) Statistics, July 2021

Renewable Energy

13,787 renewable energy sites (increase of 34% since 2014) (England 45%)



232 MW renewable energy capacity generated (over 3-fold increase since 2014) (England x 2 increase)

288,673 MWh used (143% increase since 2014) (England 56%)



13,681 Sites, 192 MW capacity & 185,798 MWh usage from Solar Panels (Photovoltaics), a 4-fold increase in capacity since 2014



69 Sites, 23 MW capacity & 148,662 MWh usage from Onshore Wind



23 Sites, 3 MW capacity & 9,181 MWh usage from Hydro power



6 Sites, 12 MW capacity & 34,688 MWh usage from Landfill Gas



8 Sites, 2 MW capacity & 10,345 MWh usage from other sources*

Source: 2019 Renewable electricity by local authority, BEIS, Sept 2020

Notes: * Other renewable energy sources cover Anaerobic Digestion, Offshore wind, Wave/Tidal, Sewage Gas, Municipal Solid Waste, Animal Biomass, Plant Biomass and Cofiring

Energy Consumption

Electricity¹

3,502 kWh average domestic consumption in 2019 (-13% since 2009) (England -13%)

87,538 kWh average industrial and commercial consumption for 2019 (-8% (England -13%))



Gas²

15,650 kWh average domestic gas sales in 2019 (-11% since 2009) (England -12%)

624,353 kWh average industrial and commercial gas sales in 2019 (+35% since 2009) (England +3%)



Source: ¹2009 to 2019 Sub-national electricity sales and numbers of customers, BEIS, December 2020; ²2009 to 2019 Sub-national gas sales and numbers of customers, BEIS, December 2020

Policy and Research - September 2021

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Source: Derbyshire County Council, 1 September 2021, v1.0